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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/027,828	10/25/2001	Wolfgang Liedtke	600-1-287N	2548
23565	7590 09/09/2003			
KLAUBER & JACKSON			EXAMINER	
411 HACKENSACK AVENUE HACKENSACK, NJ 07601			LI, RUIXIANG	
			ART UNIT	PAPER NUMBER

DATE MAILED: 09/09/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	_
Office Astion Occurren		10/027,828	LIEDTKE ET AL.	
	Office Action Summary	Examiner	Art Unit	
		Ruixiang Li	1646	_
Period fo	The MAILING DATE of this communication app r Reply	ears on the cover sheet with the c	orrespondence address	
THE N - Exter after: - If the - If NO - Failur - Any n	ARTENED STATUTORY PERIOD FOR REPLY AMAILING DATE OF THIS COMMUNICATION, stores of time may be available under the provisions of 37 CFR. 1.1 period for reply specified above is less than thirty (30) days, a reply period for reply is specified above is less than thirty (30) days, a reply period for reply is specified above in the maximum statutory period ve to reply within the set or extended period for reply will, by statute by received by the Office later than three morths after the mailing of patient term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tim within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	tely filed s will be considered timely. the mailing date of this communication. 0 (36 U.S.C. § 133).	
1)	Responsive to communication(s) filed on	<del></del> ·		
2a)□	This action is <b>FINAL</b> . 2b)⊠ Th	is action is non-final.		
3) 🗌 Dispositi	Since this application is in condition for allowa closed in accordance with the practice under on of Claims			
4)⊠	Claim(s) 1-14 is/are pending in the application			
	a) Of the above claim(s) is/are withdraw	vn from consideration.		
5)	Claim(s) is/are allowed.			
6)[	Claim(s) is/are rejected.			
7)	Claim(s) is/are objected to.			
8)🖂	Claim(s) 1-14 are subject to restriction and/or	election requirement.		
Application	on Papers			
9)[] 7	he specification is objected to by the Examine	r.		
10) 🔲 7	he drawing(s) filed on is/are: a)□ accep	oted or b)☐ objected to by the Exar	miner.	
	Applicant may not request that any objection to the	• • • •	· ·	
11)[] 7	he proposed drawing correction filed on		ved by the Examiner.	
40.	If approved, corrected drawings are required in rep			
	he oath or declaration is objected to by the Exa	aminer.		
-	nder 35 U.S.C. §§ 119 and 120			
	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	)-(d) or (f).	
	☐ All b)☐ Some * c)☐ None of:			
	<ol> <li>Certified copies of the priority documents</li> </ol>			
	<ol><li>Certified copies of the priority documents</li></ol>	s have been received in Application	on No	
	<ol> <li>Copies of the certified copies of the prior application from the International Bure the attached detailed Office action for a list</li> </ol>	eau (PCT Rule 17.2(a)).	-	
14)∐ A	cknowledgment is made of a claim for domestic	priority under 35 U.S.C. § 119(e	) (to a provisional application).	
	☐ The translation of the foreign language pro cknowledgment is made of a claim for domesti			
Attachment	_			
2) D Notice	of References Cited (PTO-892) of Draftsperson's Patent Drawing Review (PTO-948) ation Disclosure Statement(s) (PTO-1449) Paper No(s)		(PTO-413) Paper No(s) ratent Application (PTO-152)	

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## DETAILED ACTION

## Election/Restrictions

1. Restriction to one of the following inventions is required under 35 U.S.C. 121:

I. Claims 1-6, drawn to a method for modulating mechanoreception or

mechanosensation in a mammal or a method for treating a condition

characterized by altered mechanoreception or mechanosensation in a mammal

comprising administering to said mammal an effective amount of VR-OAC

polypeptide, classified in class 514, subclass 12.

II. Claims 7-8, drawn to a method for modulating mechanoreception or

mechanosensation in a mammal comprising introducing to said mammal a

nucleic acid vector capable of expressing an effective amount of VR-OAC

polypeptide, classified in class 435, subclass 6.

III. Claims 9 (in part), and 10, drawn to a method for determining whether a subject is

suffering from altered mechanoreception or mechanosensation, comprising determining expression of VR-OAC polypeptide by detecting the binding of an

determining expression of VIV erro perypertide by detecting the binding of an

antibody with VR-OAC polypeptide, classified in class 435, subclass 7.1.

IV. Claims 9 (in part), drawn to a method for determining whether a subject is

suffering from altered mechanoreception or mechanosensation, comprising determining the ribonucleic acid capable of encoding VR-OAC polypeptide.

classified in class 435, subclass 6.

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V. Claims 11 and 12, drawn to a method of screening for modulators of mechanoreception or mechanosensation, classified in class 435, subclass 7.1.

- VI. Claims 13 and 14, drawn to a biosensor or nanotechnological device, classified in class 436, subclass 807.
- 2. The inventions are distinct, each from the other for the following reasons. Inventions I-V are unrelated. Inventions are unrelated if it can be shown that they are not disclosed as capable of use together and they have different modes of operation, different functions, or different effects (MPEP §806.04, MPEP §808.01). In the instant case, the different inventions are drawn to completely different methods each having completely different method steps, using different compositions, and having completely different outcomes. Invention I requires administering an effective amount of VR-OAC polypeptide to treat a condition characterized by altered mechanoreception or mechanosensation in a mammal; Invention II requires modulating mechanoreception or mechanosensation in a mammal comprising introducing to said mammal a nucleic acid vector capable of expressing an effective amount of VR-OAC polypeptide; Invention III requires determining expression of VR-OAC polypeptide by detecting the binding of an antibody with VR-OAC polypeptide; Invention IV requires determining whether a subject is suffering from altered mechanoreception or mechanosensation by determining the ribonucleic acid capable of encoding VR-OAC polypeptide; whereas Invention V requires screening for modulators of mechanoreception or mechanosensation. Each method is unique and not required another. Thus, all the methods are exclusive.

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 Invention VI is unrelated to Inventions I-V, because different inventions are drawn to distinct product and method inventions.

4. Because these inventions are distinct for the reasons given above and have

acquired a separate status in the art because of their recognized divergent subject

matter, restriction for examination purposes as indicated is proper.

5. Because these inventions are distinct for the reasons given above and the search

required for a single group is not required for any other group, restriction for

examination purposes as indicated is proper.

6. Furthermore, this application contains 7 amino acid sequences (SEQ ID NOS: 2 and

4-9). Each individual sequence represents a structural and functionally distinct entity

that is capable of supporting a separate patent. The search and consideration of

more than a single sequence constitutes an undue search burden on the office, given

the ever-increasing size of the database.

Applicant is advised that a reply to this requirement must include an

identification of an amino acid sequence that is elected consonant with this

requirement, and a listing of all claims readable thereon, including any claims

subsequently added. An argument that a claim is allowable or that all claims are

generic is considered nonresponsive unless accompanied by an election. The

Examiner notes that this is not a species election requirement; rather, it sets

forth additional invention groups.

Applicants are reminded that upon the cancellation of claims to a non-elected

invention, the inventorship must be amended in compliance with 37 CFR 1.48 (b) if

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one or more of the currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a petition under 37 CFR 1.48 (b) and by the fee required under 37 CFR 1.17 (I).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ruixiang Li whose telephone number is (703) 306-0282. The examiner can normally be reached on Monday through Friday from 8:30 am to 5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Yvonne Eyler, can be reached on (703) 308-6564. The fax phone number for this Group is (703) 305-3014 or (703) 308-4242.

Communications via Internet e-mail regarding this application, other than those under 35 U.S.C. 132 or which otherwise require a signature, may be used by the applicant and should be addressed to [yvonne.eyler@uspto.gov].

All Internet e-mail communications will be made of record in the application file. PTO employees do not engage in Internet communications where there exists a possibility that sensitive information could be identified or exchanged unless the record includes a properly signed express waiver of the confidentiality requirements of 35 U.S.C. 122. This is more clearly set forth in the Interim Internet Usage Policy published in the Official Gazette of the Patent and Trademark on February 25, 1997 at 1195 OG 89

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 308-0196.

Ruixiang Li Examiner August 30, 2003

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